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Summer Internship

06.17.2015 • 09.17.2015

Overview

Libraries updated/created

- clronep
- cpponep
- javaonep
- goonep
- pyonep
- exoline
- arduino_exosite_library
- particle_exosite_library

Tutorial Videos

- Exoline demo
- Portals - dashboards, custom widgets, themes

Demos

- Coffee subscription widget
- ESP8266 Occupancy Sensor
- Test device Chrome extension?

Libraries and GitHub repos

clronep

<https://github.com/exosite-labs/clronep>

API Wrapper Additions/Updates

- RPC: writegroup, recordbatch, usage, wait, listing
- All of provisioning
- Etc: update to .NET 4.6, Json.NET 7.0.1 (the latter still a pending pull request)

New Examples

- Wait example with threading
- Provisioning example similar to pyonep
- GUI for both examples

cpponep

<https://github.com/exosite-labs/cpponep>

API Wrapper Additions/Updates

- RPC: writegroup, usage, recordbatch, listing
 - remove comment
- All of provisioning
- etc: update to jsoncpp 1.6.4

New Examples

- Writegroup example
- Provisioning example similar to pyonep

javaonep

<https://github.com/exosite-labs/javaonep>

still pending pull request

API Wrapper Additions/Updates

- RPC: writegroup, recordbatch, usage, wait
- All of provisioning

New examples

- Provisioning example similar to pyonep

goonep

<https://github.com/exosite-labs/goonep>

- Based on Zak Chen's library
- Completely implement the RPC wrapper and entirety of provisioning wrapper
- Design tests in Go's testing module to test RPC and provisioning

pyonep

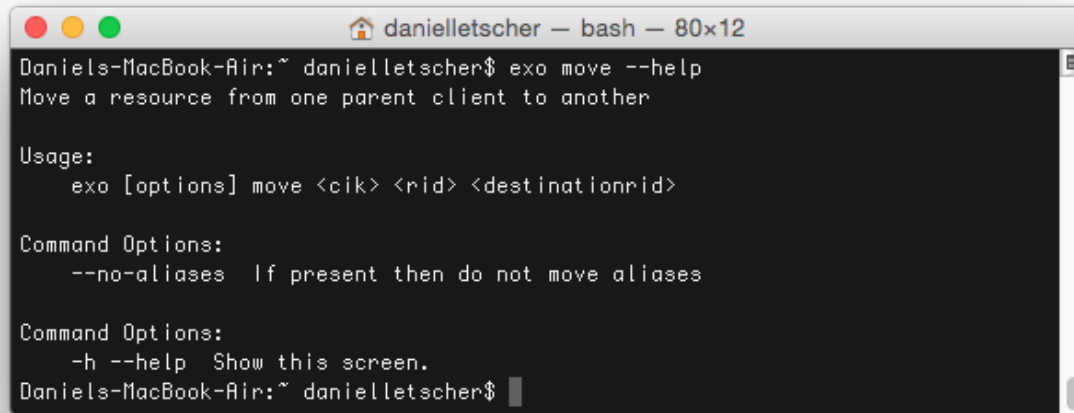
<https://github.com/exosite-labs/pyonep>

- Add `manage_by_sharecode` to provisioning API wrapper and example
 - So that you can clone devices from one portal to another
- With Dan Weaver: add RPC move command

exoline

<https://github.com/exosite/exoline>

- Work with Weaver to implement RPC move command
- Used exoline plugin capabilities, call to pyonep to actually make the API call
- Include move_test in exoline's tests



```
danielletscher — bash — 80x12
Daniels-MacBook-Air:~ danielletscher$ exo move --help
Move a resource from one parent client to another

Usage:
  exo [options] move <cik> <rid> <destinationrid>

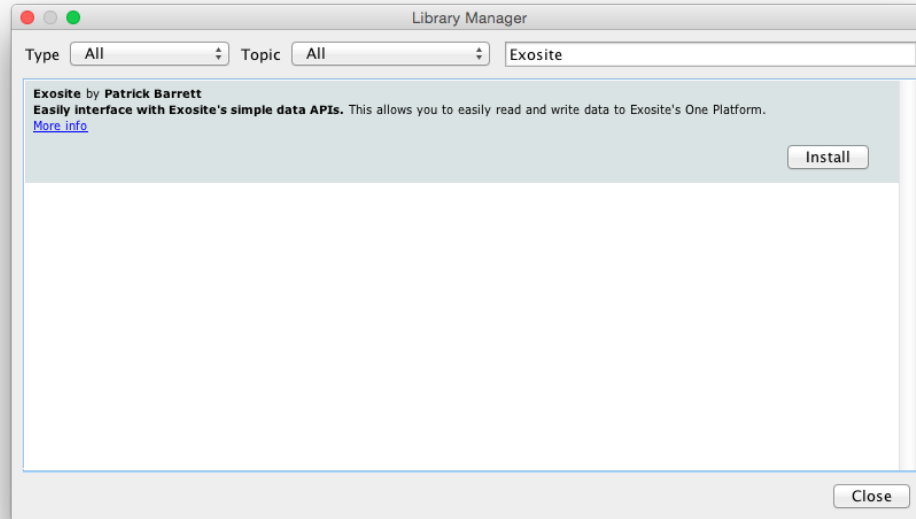
Command Options:
  --no-aliases  If present then do not move aliases

Command Options:
  -h --help  Show this screen.
Daniels-MacBook-Air:~ danielletscher$
```

arduino_exosite_library

https://github.com/exosite-garage/arduino_exosite_library

- Add and adapt the library to the community-sourced Library Manager



arduino_exosite_library

https://github.com/exosite-garage/arduino_exosite_library

- Make fully compatible for ESP8266 boards
 - `#ifdef` to fix constructor issues
 - submitted issue that got fixed for esp8266/Arduino custom Arduino board (`strtoul`)

```
35 Exosite::Exosite(Client *_client)
36 {
37     client = _client;
38     #if !defined(ESP8266)
39     fetchNVCIK();
40     #endif
41 }
42
43 Exosite::Exosite(const char *_cik, Client *_client)
44 {
45     strncpy(cik, _cik, 41);
46     client = _client;
47 }
48
49 Exosite::Exosite(const String _cik, Client *_client)
50 {
51     _cik.toCharArray(cik, 41);
52     client = _client;
53 }
54
55 #if defined(ESP8266)
56 void Exosite::begin(){
57     fetchNVCIK();
58 }
59 #endif
```

cstdlib function strtoul not supported #608



Letsch22 opened this issue on Jul 24 · 2 comments



Letsch22 commented on Jul 24

Attempting to use strtoul results in following error:

```
undefined reference to 'strtoul'
collect2: error: ld returned 1 exit status
Error compiling.
```



Igrrr commented on Aug 10

Owner

Added in #679

particle_exosite_library

https://github.com/exosite-garage/particle_exosite_library

- Adapt arduino_exosite_library to be compatible with Particle boards
- Add provisioning example and fix simple read/write example
- Library includable via search on web IDE (Particle Build)

Published Library

EXOSITE 0.0.2

Connect to the Exosite
Platform Quickly and Easily

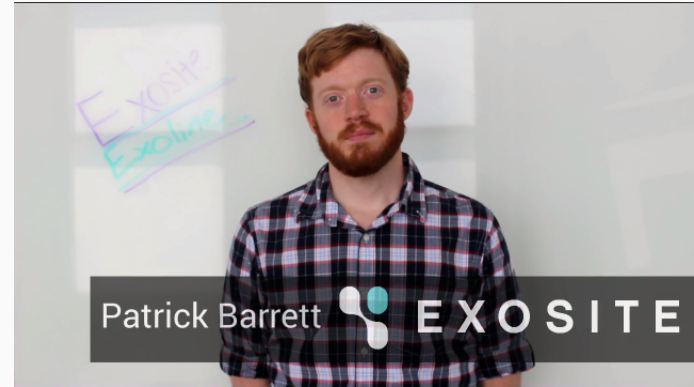


Tutorial Videos

Tutorial Videos

<http://docs.exosite.com/videos/>

- Four videos:
 - Using exoline
 - Creating a dashboard in Portals
 - Using custom widgets in Portals
 - Creating a custom theme in Portals



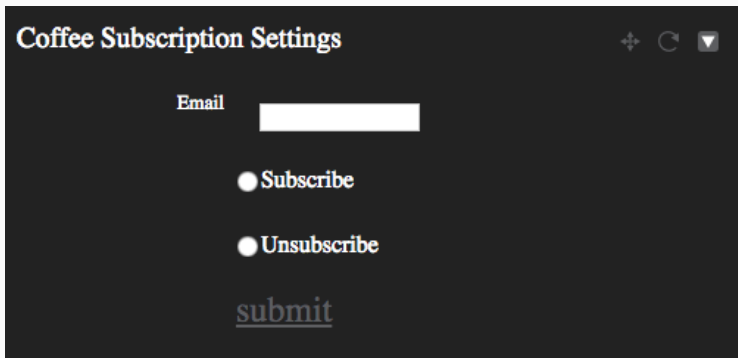
- Process for creation outlined at <https://i.exosite.com/display/Support/Tutorial+Video+Creation>
- Make more! (we have a whole list in Basecamp!)

Demos

Coffee subscription widget

<https://officecoffee.exosite.com/views/3687099515/4055334776>

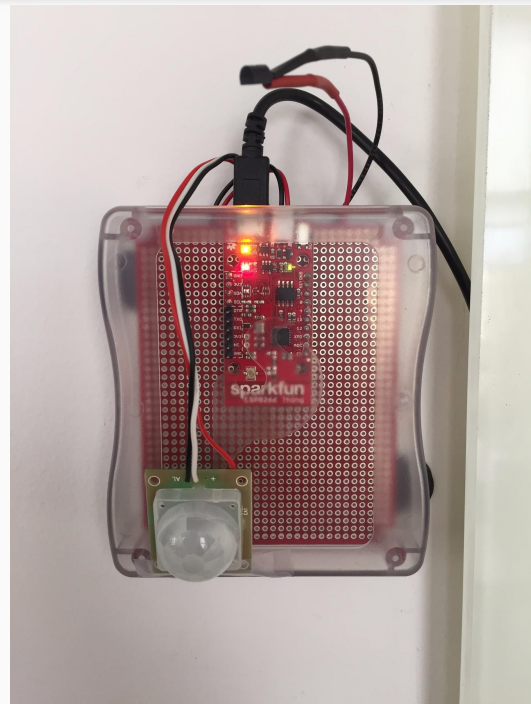
- For both coffee drinkers and haters alike
- Custom JavaScript widget with two Lua scripts to manage a JSON table of the subscription statuses and new subscriptions as well as to send emails upon coffee being brewed



The screenshot shows a dark-themed user interface for a 'Coffee Subscription Settings' widget. At the top, the title 'Coffee Subscription Settings' is displayed in white, followed by three small icons: a plus sign, a refresh symbol, and a dropdown arrow. Below the title, there is a label 'Email' in white, followed by a white rectangular input field. Underneath the input field are two radio button options, 'Subscribe' and 'Unsubscribe', both in white text. At the bottom of the form is a blue, underlined button labeled 'submit'.

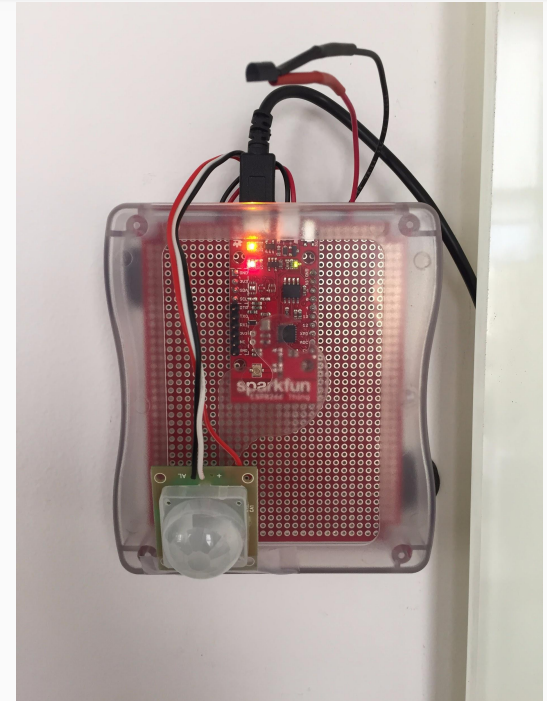
ESP8266 Occupancy Sensor

- Reports movements detected and temperature in a conference room
 - Lua script determines from average movements if conference room is occupied
- Google Apps Scripts report booleans to see if conference room is booked
- Documented at https://i.exosite.com/git/danielletscher/esp8266_occupancy
 - Wrote firmware for power-saving intermittent sleep mode and quick-reporting plugged-in mode



ESP8266 Occupancy Sensor

- Check it out at <https://smartoffice.exosite.com/views/2750425599/3154403329>
- Public dashboard: <https://smartoffice.exosite.com/views/2750425599/2535707868>
- Add sound sensor?



Test device Chrome extension?

- Maybe -- work on today and tomorrow to try to get done



Thank you so
much for the
opportunity!